

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2  
12821A LANCE, MISSILE NUMBER 3671, ROUND NUMBER 341 ECL, 28 FEB--ETC(U)  
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February 1980  
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METEOROLOGICAL DATA REPORT

12821A LANCE  
Missile Number 3871  
Round Number 341 ECL  
28 February 1980

by

White Sands Meteorological Team

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WHITE SANDS MISSILE RANGE, NEW MEXICO

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Meteorological data gathered for the launching of 12821A LANCE, Missile  
Number 3871, Round Number 341 ECL are presented in tabular form.

410663

CONTENTS	PAGE
INTRODUCTION-----	1
DISCUSSION-----	1

# TABLES

1. Surface Observation Taken at 1615 MST at RATSCAT-----	2
2. RATSCAT Pilot Balloon Measured Wind Data at 1605 MST-----	3
3. RATSCAT Pilot Balloon Measured Wind Data at 1615 MST-----	4
4. JALLEN Significant Level Data at 1605 MST-----	6
5. JALLEN Upper Air Data at 1605 MST-----	7
6. JALLEN Mandatory Levels at 1605 MST-----	11
7. Holloman Significant Level Data at 1630 MST-----	12
8. Holloman Upper Air Data at 1630 MST-----	13
9. Holloman Mandatory Levels at 1630 MST-----	17

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## INTRODUCTION

12821A LANCE, Missile Number 3871, Round Number 341 ECL,  
was launched from RATSCAT, White Sands Missile Range (WSMR), New Mexico,  
at 1615:03 MST on 28 February 1980. The scheduled launch time was  
1615 MST.

## DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

#### a. Surface

(1) Standard surface observations to include pressure, temperature ( $^{\circ}\text{C}$ ), relative humidity, dew point ( $^{\circ}\text{C}$ ), density ( $\text{gm/m}^3$ ), Wind direction and speed, and cloud cover were made at the RATSCAT Met Site at T-0 minutes.

(2)

Monitor of wind speed and direction from one anemometer was also provided in the launch control room.

#### b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pilot observation at:

## SITE AND ALTITUDE

**RATSCAT 7,000 and 12,000 FEET**

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to high as possible feet in 500-foot increments.

## SITE AND TIME

**JALLEN 1605 MST  
HOLLOMAN 1630 MST**



TABLE 1. Surface Observation taken at 1615 MST,  
28 February 1980, at RATSCAT, 12821A LANCE,  
Missile Number 3871, Round Number 341 ECL.

ELEVATION	3957	FT/MSL
PRESSURE	871.7	MBS
TEMPERATURE	26.3	°C
RELATIVE HUMIDITY	15	
DEW POINT	-2.5	°C
DENSITY	1010	GM/M <sup>3</sup>
WIND SPEED	3	KTS
WIND DIRECTION	060	DEGREES
CLOUD COVER	8	Ci

# PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM RATSCAT DATE 28 28 February 1980 TIME 1605 MST

COORDINATES (WSTM) X 531,312.04 Y 357,958.56 3964.61

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL OR FEET AGL XX.

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS	HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	060	03	3100	269	08	6200	283	19
100	MISG	MISG	3200	292	09	6300	287	18
200	021	06	3300	284	09	6400	280	23
300	008	07	3400	278	08	6500	280	22
400	023	10	3500	292	12	6600	284	22
500	058	08	3600	298	13	6700	292	19
600	030	14	3700	297	13	6800	298	21
700	024	12	3800	278	15	6900	297	21
800	055	11	3900	271	14	7000	282	19
900	050	13	4000	272	16			
1000	052	10	4100	270	16			
1100	038	08	4200	277	16			
1200	035	09	4300	278	18			
1300	043	09	4400	285	16			
1400	044	09	4500	279	15			
1500	025	07	4600	289	21			
1600	007	09	4700	286	20			
1700	351	04	4800	278	16			
1800	270	05	4900	292	19			
1900	252	03	5000	281	18			
2000	CALM	CALM	5100	285	19			
2100	228	03	5200	286	19			
2200	333	02	5300	283	19			
2300	326	04	5400	291	17			
2400	296	05	5500	290	20			
2500	331	04	5600	285	16			
2600	205	04	5700	282	16			
2700	256	04	5800	274	20			
2800	273	07	5900	281	22			
2900	270	06	6000	282	20			
3000	263	07	6100	285	20			

## PILOT BALLOON MEASURED WIND DATA

PAGE 1 of 2 PAGES

TABLE 3RELEASED FROM RATSCAT DATE 28 February 1980 TIME 1615 MSTCOORDINATES (WSTM) X= 513,312.04 Y= 357,958.56 3964.61

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL XX OR FEET AGL     .

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC	065	04
100	MISG	MISG
200	017	04
300	021	05
400	026	07
500	063	16
600	041	14
700	043	19
800	026	14
900	012	18
1000	007	13
1100	018	12
1200	013	09
1300	012	09
1400	047	06
1500	332	06
1600	312	07
1700	339	10
1800	033	10
1900	050	09
2000	191	01
2100	305	04
2200	263	04
2300	278	03
2400	291	04
2500	302	07
2600	286	10
2700	299	07
2800	283	08
2900	275	09
3000	261	08

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
3100	261	09
3200	260	11
3300	270	10
3400	284	12
3500	301	15
3600	264	11
3700	264	11
3800	250	11
3900	252	14
4000	282	19
4100	276	18
4200	272	17
4300	270	16
4400	275	12
4500	272	15
4600	259	16
4700	267	16
4800	273	17
4900	274	15
5000	284	15
5100	267	18
5200	277	19
5300	280	18
5400	281	16
5500	281	16
5600	285	19
5700	285	19
5800	283	18
5900	280	17
6000	283	18
6100	279	20

HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
6200	283	21
6300	285	20
6400	283	17
6500	287	21
6600	287	21
6700	287	17
6800	284	16
6900	279	20
7000	271	23
7100	285	23
7200	278	21
7300	275	23
7400	280	22
7500	276	21
7600	284	20
7700	288	16
7800	276	19
7900	277	16
8000	278	13
8100	268	16
8200	286	23
8300	287	21
8400	263	26
8500	264	21
8600	288	15
8700	273	20
8800	275	19
8900	283	21
9000	285	20
9100	284	21
9200	288	19

DATE: 28 February 1980

TIME 1615 MST

[illegible][illegible][illegible]

STATION ALTITUDE 4051.00 FEET MSL  
28 FEB. 80 1605 HRS MST  
ASCENSION NO. 60

SIGNIFICANT LEVEL DATA  
0590030000  
JALLEN

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LON DEG

TABLE 4

PRESSURE GEOMETRIC MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
872.9	22.7	-7.1	13.0
850.0	20.3	-4.8	18.0
700.0	6.0	-14.1	22.0
624.5	-2.2	-17.4	30.0
568.0	-7.2	-23.4	26.0
535.2	-11.3	-25.0	31.0
500.0	-14.6	-33.0	19.0
400.0	-28.9	-42.0	25.0
345.4	-38.0	-49.3	29.0
300.0	-45.7		
250.0	-54.9		
232.6	-58.6		
227.8	-57.1		
217.6	-57.7		
208.2	-54.2		
200.0	-54.9		
194.6	-55.2		
186.0	-52.6		
160.8	-54.5		
150.0	-56.8		
134.4	-60.9		
120.6	-61.9		
107.8	-66.0		
103.7	-63.0		
100.0	-64.2		
91.7	-67.1		
84.2	-65.0		
70.0	-64.0		
50.0	-63.0		
30.0	-57.1		
25.4	-55.7		

STATION ALTITUDE 4051.00 FEET MSL  
28 FEB. 60 1605 HRS MST  
ASCENSION NO. 60

UPPER AIR DATA  
059003000  
JALLEN

GEODETIC COORDINATES  
33.16712 LAT NEG  
100.49511 LONG NEG

TABLE 5

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	TEMPERATURE DEMPONT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	872.9	22.7	-7.1	13.0	1026.3	670.6	180.0	2.9	1.000244
4500.0	859.2	21.3	-5.5	16.0	1014.8	669.1	179.9	2.2	1.000244
5000.0	844.0	19.8	-5.1	18.1	1001.9	667.4	179.7	1.3	1.000242
5500.0	828.9	18.4	-5.9	18.5	988.5	665.8	178.9	.5	1.000238
6000.0	814.0	17.1	-6.7	18.9	975.3	664.3	304.2	1.5	1.000234
6500.0	799.4	15.8	-7.6	19.3	962.2	662.7	304.9	4.6	1.000230
7000.0	785.0	14.4	-8.4	19.6	949.4	661.2	302.6	7.4	1.000226
7500.0	770.9	13.1	-9.3	20.0	936.8	659.6	300.1	10.1	1.000223
8000.0	757.1	11.8	-10.2	20.4	924.3	658.1	295.7	11.6	1.000219
8500.0	743.5	10.4	-11.1	20.8	912.1	656.5	290.5	12.6	1.000216
9000.0	730.1	9.1	-12.0	21.1	900.0	654.9	286.9	13.4	1.000212
9500.0	717.0	7.8	-12.9	21.5	888.1	653.3	284.0	14.2	1.000209
10000.0	704.1	6.4	-13.8	21.9	876.4	651.8	278.9	13.8	1.000205
10500.0	691.1	5.1	-14.4	22.9	864.4	650.2	273.2	13.5	1.000202
11000.0	678.2	3.7	-14.8	24.2	852.4	648.6	271.5	14.2	1.000199
11500.0	665.5	2.4	-15.3	25.5	840.6	647.0	270.3	15.0	1.000197
12000.0	653.1	1.0	-15.9	26.9	829.0	645.4	271.2	16.4	1.000194
12500.0	640.9	-.3	-16.5	28.2	817.6	643.8	271.6	17.3	1.000191
13000.0	628.9	-1.7	-17.1	29.5	806.3	642.2	270.3	15.3	1.000188
13500.0	617.0	-2.8	-18.2	29.5	794.4	640.8	268.5	12.9	1.000185
14000.0	605.2	-3.9	-19.4	28.7	782.2	639.6	265.0	9.1	1.000181
14500.0	593.6	-4.9	-20.6	27.9	770.2	638.3	259.6	5.6	1.000178
15000.0	582.2	-5.9	-21.8	27.0	758.4	637.1	254.3	3.4	1.000175
15500.0	571.1	-6.9	-23.0	26.2	746.6	635.9	241.1	1.5	1.000171
16000.0	560.0	-8.2	-23.7	27.2	735.8	634.3	150.1	.4	1.000169
16500.0	549.1	-9.5	-24.3	28.8	725.2	632.7	110.2	.4	1.000166
17000.0	538.4	-10.9	-24.8	30.5	714.8	631.1	279.1	.4	1.000164
17500.0	527.8	-12.0	-26.5	28.5	703.7	629.8	271.6	1.9	1.000161
18000.0	517.4	-12.9	-28.8	25.0	692.4	628.6	268.3	3.8	1.000157
18500.0	507.2	-13.9	-31.2	21.5	681.3	627.4	262.4	5.4	1.000154
19000.0	497.1	-15.0	-33.3	19.2	670.5	626.0	256.4	6.9	1.000151
19500.0	486.9	-16.3	-34.1	19.7	660.2	624.4	249.6	8.3	1.000149
20000.0	477.0	-17.6	-34.9	20.3	650.1	622.8	242.6	9.6	1.000147
20500.0	467.2	-18.9	-35.8	20.6	640.1	621.2	235.0	11.0	1.000144
21000.0	457.7	-20.3	-36.7	21.4	630.3	619.6	227.5	12.6	1.000142
21500.0	448.3	-21.6	-37.5	21.9	620.7	618.0	221.0	13.5	1.000140
22000.0	439.2	-22.9	-38.4	22.5	611.3	616.3	214.1	13.7	1.000137
22500.0	430.2	-24.2	-39.3	23.0	602.0	614.7	207.7	13.6	1.000135
23000.0	421.4	-25.6	-40.3	23.6	592.8	613.0	200.7	12.9	1.000133
23500.0	412.8	-26.9	-41.2	24.2	583.8	611.4	196.3	12.6	1.000131

UPPER AIR DATA  
0590030000  
JALLEN

STATION ALTITUDE 4051.00 FEET MSL  
28 FEB. 80 1605 HRS MST  
ASCENSION NO. 60

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LONG DEG

TABLE 5 (CONT)

GEO-METRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
24000.0	404.4	-28.2	24.7	575.0	639.8	194.9	12.7	1.000129
24500.0	395.9	-29.5	25.3	566.1	646.1	195.4	12.7	1.000127
25000.0	387.4	-30.9	25.9	557.0	646.4	197.5	12.6	1.000125
25500.0	379.1	-32.2	26.5	548.0	644.7	197.2	12.6	1.000123
26000.0	371.0	-33.6	27.0	539.4	643.0	195.9	13.0	1.000121
26500.0	363.1	-34.9	27.6	530.9	641.3	189.5	13.8	1.000119
27000.0	355.3	-36.2	28.2	522.4	639.7	182.9	14.8	1.000117
27500.0	347.7	-37.6	28.8	514.2	637.9	179.4	15.8	1.000115
28000.0	340.1	-38.8	25.8**	505.6	636.3	176.9	16.8	1.000113
28500.0	332.5	-40.1	21.2**	497.0	634.8	175.6	18.8	1.000111
29000.0	325.2	-41.3	16.6**	488.6	633.2	174.6	21.0	1.000109
29500.0	317.9	-42.5	12.0**	480.3	631.6	173.6	22.3	1.000107
30000.0	310.9	-43.7	7.3**	472.1	630.1	172.6	23.0	1.000105
30500.0	304.0	-45.0	2.7**	464.1	628.5	174.1	22.5	1.000103
31000.0	297.2	-46.2		456.1	626.9	177.0	21.1	1.000102
31500.0	290.3	-47.4		447.9	625.4	181.1	20.2	1.000100
32000.0	283.7	-48.5		439.9	623.9	180.1	19.6	1.000098
32500.0	277.1	-49.7		432.1	622.4	189.5	18.3	1.000096
33000.0	270.8	-50.9		424.4	620.8	191.7	16.1	1.000095
33500.0	264.5	-52.0		416.8	619.3	195.6	14.2	1.000093
34000.0	258.4	-53.2		409.4	617.7	202.5	12.7	1.000091
34500.0	252.5	-54.4		402.1	616.2	209.4	12.2	1.000090
35000.0	246.6	-55.6		394.9	614.6	213.1	13.5	1.000088
35500.0	240.8	-56.8		387.7	613.0	213.0	15.2	1.000086
36000.0	235.1	-58.1		380.7	611.4	213.1	18.5	1.000085
36500.0	229.5	-57.6		373.9	611.9	211.9	21.9	1.000083
37000.0	224.0	-57.3		366.6	612.3	212.2	25.1	1.000081
37500.0	218.7	-57.6		359.5	611.9	212.4	28.4	1.000079
38000.0	213.6	-56.2		352.9	613.8	212.0	29.9	1.000076
38500.0	208.5	-54.3		342.0	616.3	211.6	31.1	1.000074
39000.0	203.6	-54.6		332.6	615.9	209.4	31.6	1.000072
39500.0	198.9	-55.0		324.6	615.5	206.7	31.9	1.000071
40000.0	194.2	-55.1		317.5	615.5	204.6	34.3	1.000069
40500.0	189.7	-53.7		310.2	615.3	204.6	34.3	1.000069
41000.0	185.2	-52.7		301.1	617.1	203.2	38.1	1.000067
41500.0	180.9	-53.0		292.7	618.5	203.6	43.1	1.000065
42000.0	176.7	-53.3		280.3	618.1	206.9	51.0	1.000064
42500.0	172.6	-53.6		289.0	617.6	209.3	59.0	1.000062
43000.0	168.6	-54.0		273.9	617.2	211.7	61.5	1.000061
43500.0	164.6	-54.3		267.9	616.8	214.0	63.6	1.000060
44000.0	160.6	-54.3		262.0	616.4	216.1	65.8	1.000058

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL  
28 FEB. 69 1605 HRS MST  
ASCENSION NO. 60

UPPER AIR DATA  
0590030000  
JALLEN

GEODETIC COORDINATES  
33.16712 LAT LEG  
106.49511 LON DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	*IND. DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
44000.0	160.8	-54.6		250.3	575.9	218.4	62.1	1.000057
44500.0	157.0	-55.4		251.1	574.9	221.1	58.1	1.000056
45000.0	153.3	-56.1		246.1	573.9	224.1	54.3	1.000055
45500.0	149.7	-56.9		241.1	572.9	227.3	43.3	1.000054
46000.0	146.1	-57.8		236.4	571.7	232.7	32.2	1.000053
46500.0	142.6	-58.7		231.7	570.5	224.4	34.3	1.000052
47000.0	139.2	-59.6		227.1	569.3	219.2	37.8	1.000051
47500.0	135.9	-60.5		222.6	568.1	215.2	43.1	1.000050
48000.0	132.6	-61.0		217.8	567.4	213.1	48.2	1.000049
48500.0	129.4	-61.2		212.8	567.1	217.1	45.1	1.000047
49000.0	126.3	-61.5		207.9	566.8	221.6	42.2	1.000046
49500.0	123.3	-61.7		203.1	566.5	225.5	40.1	1.000045
50000.0	120.3	-62.0		198.4	566.1	227.9	38.8	1.000044
50500.0	117.3	-62.9		194.4	564.9	230.5	37.7	1.000043
51000.0	114.3	-63.8		190.5	563.7	232.7	37.1	1.000042
51500.0	111.7	-64.7		186.6	562.5	234.9	36.8	1.000042
52000.0	108.9	-65.6		182.9	561.2	237.0	36.6	1.000041
52500.0	106.3	-64.9		177.8	562.2	240.5	34.6	1.000040
53000.0	103.7	-63.0		171.9	564.7	244.5	32.8	1.000038
53500.0	101.2	-63.3		168.3	563.7	247.9	30.5	1.000037
54000.0	98.7	-64.6		164.9	562.5	249.3	26.5	1.000037
54500.0	96.2	-65.5		161.4	561.4	251.1	22.6	1.000036
55000.0	93.9	-66.3		158.1	560.3	246.5	20.8	1.000035
55500.0	91.6	-67.1		154.8	559.3	237.4	20.6	1.000034
56000.0	89.3	-66.4		150.5	560.1	228.3	20.9	1.000034
56500.0	87.1	-65.8		146.4	560.9	226.1	20.2	1.000033
57000.0	85.0	-65.2		142.3	561.8	224.0	19.4	1.000032
57500.0	82.9	-64.9		138.6	562.2	224.2	17.7	1.000031
58000.0	80.8	-64.8		135.1	562.4	232.9	13.9	1.000030
58500.0	78.9	-64.6		131.8	562.5	247.5	10.6	1.000029
59000.0	76.9	-64.5		128.4	562.7	252.7	8.5	1.000029
59500.0	75.0	-64.4		125.2	562.9	244.3	6.8	1.000028
60000.0	73.2	-64.2		122.1	563.1	230.9	5.4	1.000027
60500.0	71.4	-64.1		119.0	563.3	220.2	4.7	1.000027
61000.0	69.7	-64.0		116.0	563.4	208.1	4.3	1.000026
61500.0	68.0	-63.9		113.2	563.5	194.5	4.0	1.000025
62000.0	66.3	-63.8		110.4	563.6	178.9	3.6	1.000025
62500.0	64.7	-63.8		107.6	563.7	160.6	3.4	1.000024
63000.0	63.1	-63.7		105.0	563.8	147.7	4.0	1.000023
63500.0	61.6	-63.6		102.4	563.9	143.2	5.1	1.000023



STATION ALTITUDE 4051.00 FEET MSL  
28 FEB. 80 1605 HRS MST  
ASCENSION NO. 60

UPPER AIR DATA  
6590030000  
JALLEN

GEODETIC COORDINATES  
33.16712 LAT DEG  
106.49511 LONG DEG

TABLE 5 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GV/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
6400.0	60.1	-63.5		99.9	54.0	140.3	6.3	1.000022
6450.0	58.6	-63.5		97.4	54.1	139.2	6.5	1.000022
6500.0	57.2	-63.4		95.0	54.2	138.8	6.2	1.000021
6550.0	55.8	-63.3		92.7	54.3	138.4	5.9	1.000021
6600.0	54.4	-63.3		90.4	54.4	130.3	5.6	1.000020
6650.0	53.1	-63.2		88.1	54.5	119.0	5.6	1.000020
6700.0	51.8	-63.1		85.0	54.6	109.6	6.1	1.000019
6750.0	50.6	-63.0		83.8	54.7	107.7	6.4	1.000019
6800.0	49.3	-62.8		81.7	54.8	100.8	6.8	1.000018
6850.0	48.2	-62.6		79.7	54.9	100.0	7.1	1.000018
6900.0	47.0	-62.3		77.7	55.7	100.2	7.4	1.000017
6950.0	45.9	-62.0		75.7	56.1	94.7	7.8	1.000017
7000.0	44.8	-61.7		73.8	56.5	89.8	8.3	1.000016
7050.0	43.7	-61.4		71.9	56.8	77.4	9.0	1.000016
7100.0	42.7	-61.2		70.1	57.2	67.1	10.0	1.000016
7150.0	41.6	-60.9		68.3	57.6	58.9	11.3	1.000015
7200.0	40.6	-60.6		66.6	58.0	59.2	11.5	1.000015
7250.0	39.7	-60.3		64.9	58.3	59.4	11.8	1.000014
7300.0	38.7	-60.0		63.3	58.7	59.6	12.0	1.000014
7350.0	37.8	-59.8		61.7	59.1	64.2	13.0	1.000014
7400.0	36.9	-59.5		60.2	59.5	67.9	14.1	1.000013
7450.0	36.0	-59.2		58.6	59.8	71.1	15.2	1.000013
7500.0	35.1	-58.9		57.2	60.2	70.6	16.1	1.000013
7550.0	34.3	-58.6		55.7	60.9	69.9	16.8	1.000012
7600.0	33.5	-58.4		54.3	61.9	69.2	17.6	1.000012
7650.0	32.7	-58.1		52.9	62.5	68.4	18.2	1.000012
7700.0	31.9	-57.8		51.6	63.1	67.6	18.7	1.000011
7750.0	31.1	-57.5		50.3	63.7	66.9	19.3	1.000011
7800.0	30.4	-57.2		49.0	64.4	66.7	19.2	1.000011
7850.0	29.7	-57.0		47.8	65.0	67.3	18.3	1.000011
7900.0	29.0	-56.8		46.6	65.3	67.9	17.3	1.000010
7950.0	28.3	-56.6		45.5	65.5			1.000010
8000.0	27.6	-56.4		44.4	65.5			1.000010
8050.0	27.0	-56.2		43.3	65.8			1.000009
8100.0	26.3	-56.0		42.3	66.1			1.000009
8150.0	25.7	-55.8		41.2	66.3			1.000009

STATION ALTITUDE 4051.00 FEET MSL  
 28 FEB. 80 1605 HRS MST  
 ASCENSION NO. 60

MANDATORY LEVELS  
 0590030000  
 JALLEN

GEODETIC COORDINATES  
 33.16712 LAT DEG  
 106.49511 LONG DEG

TABLE 6

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEW POINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	4803.	20.3	-4.8	18.	179.8	1.6	
800.0	6502.	15.8	-7.5	19.	304.9	4.7	
750.0	8202.	11.1	-10.0	21.	292.6	12.1	
700.0	10152.	6.0	-14.1	22.	277.1	13.7	
650.0	12124.	.7	-16.1	27.	271.4	10.8	
600.0	14211.	-4.3	-19.9	28.	262.4	7.4	
550.0	16441.	-9.4	-24.2	29.	109.3	.4	
500.0	18832.	-14.6	-33.0	19.	257.9	6.4	
450.0	21416.	-21.4	-37.4	22.	221.8	13.4	
400.0	24224.	-28.9	-42.0	25.	194.3	12.8	
350.0	27305.	-37.2	-48.7	29.	180.3	15.5	
300.0	30737.	-45.7			175.7	21.7	
250.0	34642.	-54.9			211.0	12.7	
200.0	39289.	-54.9			207.4	31.8	
175.0	42105.	-53.4			210.2	60.2	
150.0	45340.	-56.8			226.8	44.7	
125.0	49078.	-61.6			223.5	41.2	
100.0	53571.	-64.2			248.4	26.8	
80.0	58021.	-64.7			237.3	12.6	
70.0	60700.	-64.0			211.3	4.4	
60.0	63302.	-63.5			140.3	0.2	
50.0	67479.	-63.0			107.3	0.6	
40.0	72013.	-60.4			59.3	11.7	
30.0	77940.	-57.1			60.9	10.8	

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL  
28 FEB. 89 1630 HRS MST  
ASCENSION NO. 65

SIGNIFICANT LEVEL DATA  
0590010065  
HOLLOMAN

GEODETIC COORDINATES  
32.88865 LAT DEG  
106.09965 LON DEG

TABLE 7

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE		REL. HUM. PERCENT
871.3 4126.6	24.2	-5.0	14.0
860.6 4479.4	21.6	4.2	32.0
850.0 4831.4	20.6	3.3	32.0
700.0 10193.9	5.7	-7.5	32.0
658.6 11820.0	1.3	-10.5	41.0
500.0 15903.5	-14.1	-27.5	31.0
400.0 24319.5	-28.5	-39.7	33.0
329.0 28319.8	-40.0	-49.7	34.0
300.0 30371.0	-45.2		
250.0 34800.2	-54.2		
237.0 35922.2	-56.5		
231.8 36386.9	-55.6		
218.6 37614.5	-56.7		
209.8 38480.0	-53.0		
200.0 39493.1	-54.4		
188.6 40742.0	-50.9		
166.8 43390.5	-53.0		
150.0 45606.3	-56.0		
146.6 46086.8	-56.3		
135.2 47766.5	-60.3		
127.8 48924.8	-59.9		
110.6 51871.3	-64.4		
100.0 53906.6	-63.6		
91.8 55627.0	-66.4		
86.0 56937.9	-64.3		
70.0 61104.7	-63.3		
50.0 67956.5	-62.0		
32.0 77202.9	-56.3		

STATION ALTITUDE 4126.59 FEET MSL  
28 FEB. 60 1630 HRS MST  
ASCENSION NO. 65

UPPER AIR DATA  
0500010065  
HOLLOWAY

GEODETIC COORDINATES  
32.88865 LAT LEG  
106.09965 LON LEG

TABLE 8

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND KIOTS	WIND DATA DIRECTION DEGREES(TW)	SPEED KIOTS	INDEX OF REFRACTION.
4126.6	871.3	24.2	-5.0	14.0	1013.9	612.4	0.0	0.0	1.000245
4500.0	860.0	21.5	4.2	32.0	1012.9	670.0	9.3	0.9	1.000262
5000.0	844.8	20.1	3.0	32.2	1007.1	659.3	9.3	2.0	1.000256
5500.0	829.7	18.7	2.0	32.7	997.0	656.7	9.3	3.1	1.000251
6000.0	814.6	17.4	1.1	33.3	974.1	655.0	9.3	4.3	1.000247
6500.0	800.2	16.0	.1	33.9	961.4	653.4	356.7	4.9	1.000242
7000.0	785.8	14.6	-9	34.4	943.8	651.7	343.3	5.7	1.000238
7500.0	771.7	13.2	-1.9	35.0	930.5	650.1	322.8	7.1	1.000233
8000.0	757.9	11.8	-2.9	35.5	924.3	653.4	309.0	8.9	1.000229
8500.0	744.3	10.4	-4.0	36.1	912.3	655.8	300.4	10.9	1.000225
9000.0	730.9	9.0	-5.0	36.7	902.4	655.1	297.3	12.7	1.000221
9500.0	717.8	7.6	-6.0	37.2	896.8	653.5	295.6	14.3	1.000217
10000.0	704.9	6.2	-7.1	37.8	877.3	651.8	295.4	15.4	1.000213
10500.0	692.0	4.9	-8.0	38.6	865.5	650.2	295.7	16.5	1.000209
11000.0	679.2	3.5	-8.9	39.5	853.7	648.6	295.4	17.4	1.000206
11500.0	666.3	2.2	-9.9	40.4	842.0	646.9	295.8	17.7	1.000202
12000.0	654.0	.9	-10.9	40.7	837.1	645.4	297.1	17.7	1.000198
12500.0	641.4	-2.2	-12.1	40.0	817.4	644.1	297.0	15.9	1.000194
13000.0	629.1	-1.3	-13.3	39.3	804.9	642.8	298.3	14.0	1.000191
13500.0	616.9	-2.4	-14.5	39.6	792.7	641.5	298.6	11.0	1.000187
14000.0	605.1	-3.4	-15.7	37.9	782.6	640.2	299.9	9.7	1.000183
14500.0	593.4	-4.5	-16.9	37.2	763.0	638.8	303.0	7.5	1.000180
15000.0	582.0	-5.6	-18.1	36.5	757.1	637.5	308.0	5.2	1.000176
15500.0	570.8	-6.7	-19.3	35.8	745.6	636.2	325.0	2.6	1.000173
16000.0	559.8	-7.8	-20.5	35.1	734.3	634.9	20.7	1.1	1.000170
16500.0	549.0	-8.9	-21.7	34.4	723.1	633.6	95.6	.9	1.000167
17000.0	538.4	-10.0	-22.9	33.7	712.2	632.2	169.7	.3	1.000164
17500.0	528.1	-11.0	-24.1	33.0	701.4	630.9	260.0	2.5	1.000161
18000.0	517.9	-12.1	-25.3	32.3	690.8	629.6	263.3	4.9	1.000158
18500.0	507.9	-13.2	-26.5	31.6	682.4	628.3	283.4	7.1	1.000155
19000.0	498.0	-14.4	-27.7	31.0	676.1	626.9	278.7	8.7	1.000153
19500.0	487.9	-15.7	-28.8	31.2	653.8	625.2	265.0	9.1	1.000150
20000.0	477.9	-17.0	-29.9	31.4	649.7	623.6	254.2	10.2	1.000148
20500.0	468.2	-18.3	-31.0	31.6	639.8	622.0	245.4	11.6	1.000145
21000.0	458.6	-19.7	-32.2	31.8	632.1	620.3	239.8	12.7	1.000143
21500.0	449.3	-21.0	-33.3	32.0	622.5	618.7	235.9	12.4	1.000140
22000.0	440.1	-22.3	-34.4	32.1	611.1	617.1	230.7	11.7	1.000138
22500.0	431.1	-23.7	-35.5	32.3	601.9	615.4	225.3	10.7	1.000136
23000.0	422.3	-25.0	-36.7	32.5	592.6	613.8	218.0	10.4	1.000134
23500.0	413.7	-26.3	-37.8	32.7	583.6	612.1	211.3	10.6	1.000131

STATION ALTITUDE 4126.59 FEET MSL  
28 FEB. 80 1630 HRS MST  
ASCENSION NO. 65

UPPER AIR DATA  
0590010065  
HOLLOMAN

GEODETIC COORDINATES  
32.88865 LAT DEG  
106.09965 LON DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUMIDITY PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (IN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
2400.0	405.5	-27.7	32.9	575.0	610.5	208.1	10.7	1.000129
2450.0	396.9	-29.0	33.0	566.1	608.8	208.9	10.6	1.000127
2500.0	388.4	-30.2	33.2	558.9	607.2	204.9	10.7	1.000125
2550.0	380.0	-31.5	33.3	547.8	605.6	201.8	11.2	1.000123
2600.0	371.9	-32.8	33.4	538.9	604.0	198.9	11.9	1.000121
2650.0	363.9	-34.1	33.5	530.1	602.4	190.0	12.9	1.000119
2700.0	356.1	-35.3	33.6	521.5	600.8	192.1	14.1	1.000117
2750.0	348.4	-36.6	33.7	513.1	599.2	187.0	15.5	1.000115
2800.0	340.9	-37.9	33.8	504.8	597.5	183.8	17.3	1.000113
2850.0	333.6	-39.2	33.9	496.7	595.9	182.0	19.3	1.000111
2900.0	326.3	-40.5	31.0**	488.5	594.3	183.1	21.0	1.000109
2950.0	319.1	-41.7	22.7**	480.3	592.7	186.4	22.2	1.000107
3000.0	312.0	-43.0	14.4**	472.2	591.0	188.7	22.6	1.000105
3050.0	305.0	-44.3	6.1**	464.3	589.4	189.4	21.3	1.000103
3100.0	298.2	-45.5		456.3	587.8	191.5	19.7	1.000102
3150.0	291.4	-46.6		448.1	586.3	190.3	17.6	1.000100
3200.0	284.7	-47.9		440.1	584.8	200.7	15.9	1.000098
3250.0	278.2	-48.9		432.2	583.4	213.8	15.4	1.000096
3300.0	271.8	-50.1		424.4	581.9	221.2	15.2	1.000095
3350.0	265.5	-51.2		416.8	580.4	225.6	14.0	1.000093
3400.0	259.5	-52.4		409.4	578.9	230.9	12.9	1.000091
3450.0	253.5	-53.5		402.1	577.4	231.8	13.8	1.000090
3500.0	247.6	-54.6		394.7	575.9	231.8	14.9	1.000088
3550.0	241.8	-55.6		387.3	574.6	229.7	17.0	1.000086
3600.0	236.1	-56.3		379.4	573.6	227.6	19.5	1.000085
3650.0	230.6	-57.7		369.4	574.5	227.0	22.0	1.000082
3700.0	225.1	-58.1		361.4	573.9	227.6	24.4	1.000080
3750.0	219.8	-58.6		353.6	573.3	228.0	26.8	1.000079
3800.0	214.6	-59.1		345.8	575.3	223.1	28.8	1.000076
3850.0	209.6	-59.0		337.7	573.0	220.1	30.9	1.000074
3900.0	204.7	-59.7		329.0	577.1	224.4	32.1	1.000072
3950.0	199.9	-59.4		321.4	576.2	220.8	33.4	1.000071
4000.0	195.3	-59.0		309.0	576.1	219.2	37.1	1.000069
4050.0	190.8	-51.6		299.9	579.9	218.3	41.7	1.000067
4100.0	186.3	-51.1		292.3	580.5	220.1	46.8	1.000065
4150.0	182.0	-51.5		284.1	580.0	223.0	53.0	1.000064
4200.0	177.8	-51.9		276.0	579.5	220.4	58.9	1.000062
4250.0	173.7	-52.3		274.0	579.0	229.5	61.8	1.000061
4300.0	169.7	-52.7		265.1	578.4	232.3	64.8	1.000060
4350.0	165.7	-53.1		262.4	577.8	234.3	64.4	1.000058

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4126.59 FEET MSL  
20 FEB. 60 1630 HRS MST  
ASCENSION NO. 65

UPPER AIR DATA  
050010000  
HOLLOWAY

GEODETIC COORDINATES  
32.88865 LAT DEG  
106.09965 LONG DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY G/CU IN METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
44000.0	161.9	-53.8		257.1	577.0	236.1	62.4	1.000057
44500.0	158.1	-54.5		251.8	576.1	237.5	59.2	1.000056
45000.0	154.4	-55.2		245.7	575.2	237.5	53.6	1.000055
45500.0	150.8	-55.9		241.7	574.3	237.6	48.0	1.000054
46000.0	147.2	-56.2		235.8	573.8	237.8	44.6	1.000053
46500.0	143.7	-57.3		231.9	572.4	238.1	41.3	1.000052
47000.0	140.3	-58.5		227.7	570.8	238.8	40.0	1.000051
47500.0	136.9	-59.7		223.5	569.2	239.9	40.1	1.000050
48000.0	133.7	-60.2		218.7	567.5	240.9	40.2	1.000049
48500.0	130.5	-60.0		213.3	566.7	241.5	39.7	1.000048
49000.0	127.3	-60.0		208.1	565.8	242.2	39.2	1.000046
49500.0	124.2	-60.8		203.8	564.7	242.9	38.0	1.000045
50000.0	121.2	-61.5		199.6	563.7	243.5	36.3	1.000044
50500.0	118.3	-62.3		195.5	562.7	244.3	34.7	1.000044
51000.0	115.4	-63.1		191.4	561.7	245.5	33.3	1.000043
51500.0	112.6	-63.8		187.5	560.6	246.8	32.0	1.000042
52000.0	109.9	-64.4		183.4	562.9	251.6	30.9	1.000041
52500.0	107.2	-64.2		179.8	563.1	254.6	30.0	1.000040
53000.0	104.6	-64.1		174.3	563.3	258.2	29.2	1.000039
53500.0	102.0	-63.9		169.9	563.5	256.2	27.3	1.000038
54000.0	99.5	-63.9		165.7	563.5	253.6	25.5	1.000037
54500.0	97.1	-64.7		162.3	562.5	251.5	24.1	1.000036
55000.0	94.7	-65.5		157.8	561.5	249.6	22.8	1.000035
55500.0	92.4	-66.2		153.5	560.4	245.7	21.7	1.000035
56000.0	90.1	-65.8		151.4	561.0	245.6	19.9	1.000034
56500.0	87.9	-65.0		147.1	562.1	245.6	18.1	1.000033
57000.0	85.7	-64.3		143.0	563.0	245.0	16.2	1.000032
57500.0	83.6	-64.2		139.4	563.2	242.5	14.4	1.000031
58000.0	81.6	-64.0		135.9	563.3	239.4	12.6	1.000030
58500.0	79.6	-63.9		132.6	563.5	238.5	11.5	1.000030
59000.0	77.7	-63.8		129.2	563.7	240.1	10.9	1.000029
59500.0	75.8	-63.7		125.0	563.8	241.9	10.3	1.000028
60000.0	73.9	-63.6		122.9	564.0	241.2	9.2	1.000027
60500.0	72.1	-63.4		119.8	564.2	239.6	8.0	1.000027
61000.0	70.4	-63.3		116.8	564.3	236.8	6.7	1.000026
61500.0	68.7	-63.2		113.9	564.5	222.6	5.0	1.000025
62000.0	67.0	-63.1		111.1	564.6	197.7	3.8	1.000025
62500.0	65.4	-63.0		108.4	564.7	171.2	3.7	1.000024
63000.0	63.8	-62.9		105.7	564.8	162.0	4.1	1.000024
63500.0	62.2	-62.8		103.1	565.0	154.6	4.6	1.000023

STATION ALTITUDE 4126.59 FEET MSL  
28 FEB. 80 1630 HRS MST  
ASCENSION NO. 65

UPPER AIR DATA  
0590010065  
HOLLOWMAN

GEODETIC COORDINATES  
32.88865 LAT DEG  
106.09965 LON DEG

TABLE 8 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
64000.0	60.7	-62.8		100.5	565.1	153.6	4.9	1.000022
64500.0	59.2	-62.7		98.1	565.2	157.9	5.0	1.000022
65000.0	57.8	-62.6		95.6	565.3	161.9	5.0	1.000021
65500.0	56.4	-62.5		93.3	565.5	160.6	5.0	1.000021
66000.0	55.0	-62.4		91.0	565.6	157.3	5.0	1.000020
66500.0	53.7	-62.3		88.7	565.7	154.0	4.9	1.000020
67000.0	52.4	-62.2		86.5	565.9	140.9	4.6	1.000019
67500.0	51.1	-62.1		84.4	566.0	126.1	4.6	1.000019
68000.0	49.9	-62.0		82.3	566.1	112.2	4.9	1.000018
68500.0	48.7	-61.7		80.2	566.5	98.3	7.6	1.000018
69000.0	47.5	-61.4		78.2	567.0	91.9	10.5	1.000017
69500.0	46.4	-61.0		76.2	567.4	88.2	13.5	1.000017
70000.0	45.3	-60.7		74.3	567.8	87.7	15.1	1.000017
70500.0	44.2	-60.4		72.4	568.2	87.3	16.7	1.000016
71000.0	43.2	-60.1		70.6	568.6	87.0	18.3	1.000016
71500.0	42.1	-59.8		68.8	569.0	87.7	16.9	1.000015
72000.0	41.1	-59.5		67.1	569.4	88.5	15.5	1.000015
72500.0	40.2	-59.2		65.4	569.8	89.5	14.1	1.000015
73000.0	39.2	-58.9		63.7	570.3	81.7	16.0	1.000014
73500.0	38.3	-58.6		62.1	570.7	74.6	19.1	1.000014
74000.0	37.3	-58.3		60.6	571.1	69.5	22.4	1.000013
74500.0	36.5	-58.0		59.0	571.5			1.000013
75000.0	35.6	-57.7		57.5	571.9			1.000013
75500.0	34.7	-57.3		56.1	572.3			1.000012
76000.0	33.9	-57.0		54.7	572.7			1.000012
76500.0	33.1	-56.7		53.3	573.1			1.000012
77000.0	32.3	-56.4		51.9	573.5			1.000012

STATION ALTITUDE 4126.59 FEET MSL  
28 FEB. 60 1630 HRS MST  
ASCENSION NO. 65

MANDATORY LEVELS  
0590010065  
HOLLOWMAN

GEODETIC COORDINATES  
32.88865 LAT DEG  
106.09965 LON DEG

TABLE 9

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4828.	20.6	3.3	32.	9.3	1.6
800.0	6531.	15.9	.1	34.	355.8	4.9
750.0	8314.	11.0	-3.5	36.	303.4	10.2
700.0	10184.	5.7	-7.5	38.	295.3	15.8
650.0	12155.	.6	-11.3	41.	297.2	17.2
600.0	14246.	-3.9	-16.2	38.	301.3	6.6
550.0	16479.	-8.8	-21.6	34.	94.5	.9
500.0	18878.	-14.1	-27.5	31.	281.6	8.6
450.0	21467.	-20.9	-33.2	32.	236.0	12.4
400.0	24280.	-28.5	-39.7	33.	207.4	10.6
350.0	27370.	-36.4	-46.5	34.	187.9	15.2
300.0	30811.	-45.2			169.9	20.3
250.0	34726.	-54.2			231.6	14.4
200.0	39400.	-54.4			221.0	33.3
175.0	42238.	-52.2			228.4	60.8
150.0	45486.	-56.0			237.0	47.4
125.0	49241.	-60.6			242.7	38.4
100.0	53743.	-63.8			254.4	26.0
80.0	58210.	-63.9			238.2	11.7
70.0	60898.	-63.3			235.2	6.4
60.0	64011.	-62.7			155.5	4.9
50.0	67705.	-62.0			114.1	4.9
40.0	72263.	-59.2			89.6	14.0

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.



END

DATE  
FILMED

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